

What Is Claimed Is:

1. A nonwoven barrier fabric, comprising
 - a) a fine-denier spunbond layer comprising a plurality of continuous thermoplastic filaments having a denier of between 0.7 and 1.2 denier;
 - 5 b) a barrier layer material deposited uniformly onto the fine denier spunbond layer and the layers consolidated to form a composite fabric; and
 - c) said composite fabric having a hydrostatic head to barrier layer basis weight ratio of about at least 4.9 cm/gsm.
2. A nonwoven barrier fabric as in claim 1, wherein:
10 said thermoplastic filaments are chosen from the group consisting of polyolefins, polyesters and the blends thereof.
3. A nonwoven barrier fabric as in claim 2, wherein:
said polyolefins are chosen from the group consisting of polypropylene, polyethylene, and blends thereof.
- 15 4. A nonwoven barrier fabric as in claim 1, wherein: the continuous filaments may comprise bicomponent, multicomponent profiles and the blends thereof.
5. A nonwoven barrier fabric as in claim 1, wherein the barrier layer is selected from the group consisting of melt-blown, cellulosic pulp,
20 microporous film and monolithic film.
6. A nonwoven barrier fabric as in claim 5, wherein:
said melt-blown barrier layer having fiber diameters in the range of about 1 to 10 microns and a basis weight of less than or equal to about 10 grams/meter².
- 25 7. A nonwoven barrier fabric as in claim 6, wherein:
said melt-blown barrier layer having a basis weight in the range of 1 to 8 grams/ meter².
8. A nonwoven barrier fabric as in claim 1, wherein:
said means of consolidation are chosen from the group consisting of
30 pressure bonding, thermal calendering, and through-air bonding.

9. A nonwoven barrier fabric, comprising:

a) a first fine-denier spunbond layer comprising a plurality of continuous thermoplastic filaments having a denier of between 0.7 and 1.2 denier;

5 b) a barrier layer material deposited onto the first fine denier spunbond layer;

c) a second spunbond layer deposited onto the barrier layer;

d) the first fine denier spunbond layer, the barrier layer, and the second spunbond layer being consolidated into a composite fabric structure; and

10 e) said composite fabric having a hydrostatic head to barrier layer basis weight ratio of about at least 4.9 cm/gsm.

10. A nonwoven barrier fabric as in claim 9, wherein the second spunbond layer is a fine-denier spunbond layer comprising a plurality of continuous thermoplastic filaments having a denier of between 0.7 and 1.2 denier.

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11. A nonwoven barrier fabric as in claim 9, wherein:

said thermoplastic filaments are chosen from the group consisting of polyolefins, polyesters and blends thereof.

12. A nonwoven barrier fabric as in claim 9, wherein: said thermoplastic filaments of the first fine denier spunbond layer and the second spunbond layer comprise different thermoplastic polymers.

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13. A nonwoven barrier fabric as in claim 10, wherein:

said barrier layer is a melt-blown barrier layer having fiber diameters in the range of 1 to 10 microns and a basis weight less than or equal to about 10 grams/meter².

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14. A nonwoven barrier fabric, comprising:

a) a first fine-denier spunbond layer comprising a plurality of continuous thermoplastic filaments having a denier of between 0.7 and 1.2 denier;

30 b) a first barrier layer material deposited onto the first fine denier spunbond layer;

- c) a second barrier layer deposited onto the first barrier layer;
- d) a second spunbond layer deposited onto the second barrier layer;
- e) said layers being consolidated into a composite fabric structure;

and

- 5 f) said composite fabric having a hydrostatic head to barrier layer basis weight ratio of about at least 4.9 cm/gsm.

15. A nonwoven fabric as in claim 14, wherein the second spunbond layer is a fine-denier spunbond layer comprising a plurality of continuous thermoplastic filaments having a denier of between 0.7 and 1.2 denier.

- 10 16. A nonwoven fabric, as in claim 14, wherein:

said consolidation method includes thermal calendering said laminate fabric structure to exhibit a hydrostatic head rating of at least about 50 cm.

- 15 17. A disposable waste-containment garment, comprising;
an absorbent core,
a liquid pervious topsheet,
a liquid impervious backsheet,
said liquid impervious backsheet comprising a fine-denier composite

18 fabric,
said fine-denier composite fabric having a hydrostatic head to barrier layer basis weight ratio greater than 4.9 cm/gsm.

- 20 18. A disposable waste-containment garment as in Claim 17, wherein the garment is a diaper.

19. A disposable waste-containment garment as in Claim 17, wherein the garment is a catamenial device.

- 25 20. A disposable garment comprising,
a gown having a front panel, a pair of back panels extending from opposed sides of the front panel, and a pair of sleeve panels, wherein one or more of the respective panels are comprised of a fine denier composite fabric having a hydrostatic head to barrier basis weight ratio of about at least 4.9 cm/gsm.

- 30 21. A disposable garment as in claim 20 wherein said gown is a medical gown.

22. A disposable garment as in claim 20 wherein said gown is an industrial protective garment.

23. A battery separator, comprising

5 a) a first fine-denier spunbond layer comprising a plurality of continuous polyolefin filaments having a denier of between 0.7 and 1.2 denier;

b) a barrier layer material deposited onto the first fine denier spunbond layer;

c) the first fine denier spunbond layer, the barrier layer, and the second spunbond layer being consolidated into a battery separator; and

10 e) said battery separator having a hydrostatic head to barrier layer basis weight ratio of about at least 4.9 cm/gsm.

24. A battery separator as in claim 24, wherein the barrier layer comprises one or more layers of melt-blown polyolefin microfibers.